

Name: \_\_\_\_\_

**p1105: Factoring when  $a = \text{prime}$  (v32)**

1. Factor the expression  $5x^2 - 49x + 36$

$$(5x - 4)(x - 9)$$

2. Factor the expression  $7x^2 - 15x + 2$

$$(7x - 1)(x - 2)$$

3. Factor the expression  $3x^2 - 29x + 40$

$$(3x - 5)(x - 8)$$

4. Factor the expression  $11x^2 - 72x - 35$

$$(11x + 5)(x - 7)$$

5. Factor the expression  $7x^2 - 60x + 32$

$$(7x - 4)(x - 8)$$

6. Factor the expression  $3x^2 + 32x + 45$

$$(3x + 5)(x + 9)$$

7. Factor the expression  $7x^2 - 46x + 24$

$$(7x - 4)(x - 6)$$

8. Factor the expression  $2x^2 + 3x + 1$

$$(2x + 1)(x + 1)$$

9. Factor the expression  $3x^2 + 29x + 40$

$$(3x + 5)(x + 8)$$

10. Factor the expression  $2x^2 + 11x + 15$

$$(2x + 5)(x + 3)$$